Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-21-02** **Date: 24-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	22-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.16	–
2	Finess by Air permeablity method (m^2/kg,Min)	289.8	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-03-21-02** **Date: 19-04-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-02 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	22-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-21-02** **Date: 24-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer's Reference	:	BBMP/EE/BTP/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-02 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	256	256	1.7	98.3	90-100
3	20 mm	5374	5630	37.5	62.5	30-70
4	10 mm	5236	10866	72.4	27.6	10-35
5	4.75 mm	3415	14281	95.2	4.8	0-5
6	Pan	719	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-21-02** **Date: 24-03-18**

Sample ID No : 2018-03-21-02 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	0.5	_
5	Bulk Density(Compacted) (Kg/l)	0.53	_
6	Water Absorption(%)	0.14	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-21-02** **Date: 24-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-02 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	108	108	2.2	97.8	90-100
3	10 mm	3218	3326	66.5	33.5	25-55
4	4.75 mm	1457	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-21-02** **Date: 24-03-18**

Sample ID No : 2018-03-21-02 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	9.9	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.3	
3	Specific Gravity	2.64	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.56	_
6	Water Absorption(%)	0.17	_
7	Aggregate crushing Value(%)	25.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.6	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-21-02** **Date: 24-03-18**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-03-18

Sample ID No : 2018-03-21-02 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 21-03-18

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	111	138	13.8	86.2	60-95	75-100	85-100	95-100
4	1.18 mm	142	280	28.0	72.0	30-70	55-90	75-100	90-100
5	600 micron	223	503	50.3	49.7	15-34	35-59	60-79	80-100
6	300 micron	297	800	80.0	20.0	5-20	8-30	12-40	15-50
7	150 micron	113	913	91.3	8.7	0-10	0-10	0-10	0-15
8	Pan	87	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-03-21-02** **Date: 24-03-18**

Sample ID No : 2018-03-21-02 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.33	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	7.3	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 31/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	31/03/2018	150.47 X 150.82 X 150.22	22694	8.176	383.5	16.9	17.3
2	M20 Concrete	M20	24/03/2018	31/03/2018	150.72 X 150.38 X 150.83	22665	8.192	389.8	17.2	
3	M20 Concrete	M20	24/03/2018	31/03/2018	150.22 X 150.37 X 150.82	22589	8.135	399.8	17.7	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 21/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /02

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	21/04/2018	148.64 X 151.81 X 150.33	22565	8.159	491.9	21.8	22.2
2	M20 Concrete	M20	24/03/2018	21/04/2018	150.37 X 150.66 X 150.73	22655	8.183	505.2	22.3	
3	M20 Concrete	M20	24/03/2018	21/04/2018	150.37 X 149.23 X 150.78	22440	8.148	504.9	22.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 31/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /03

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	31/03/2018	151.04 X 151.22 X 149.72	22840	8.108	386.0	16.9	17.3
2	M20 Concrete	M20	24/03/2018	31/03/2018	151.55 X 150.62 X 150.86	22826	8.176	397.2	17.4	
3	M20 Concrete	M20	24/03/2018	31/03/2018	150.67 X 150.52 X 150.87	22679	8.116	399.1	17.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 21/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /04

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	21/04/2018	150.26 X 150.62 X 150.22	22632	8.128	482.1	21.3	21.7
2	M20 Concrete	M20	24/03/2018	21/04/2018	150.87 X 150.76 X 151.09	22745	8.109	495.8	21.8	
3	M20 Concrete	M20	24/03/2018	21/04/2018	150.25 X 151.02 X 150.66	22691	8.172	501.5	22.1	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 31/03/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub-division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /05

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	31/03/2018	150.87 X 150.12 X 150.17	22649	8.110	389.6	17.2	16.8
2	M20 Concrete	M20	24/03/2018	31/03/2018	150.24 X 150.79 X 150.00	22655	8.169	371.5	16.4	
3	M20 Concrete	M20	24/03/2018	31/03/2018	150.55 X 150.15 X 150.13	22605	8.255	377.5	16.7	

Note:

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This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-03-26-02** **Date: 21/04/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara

Agency : Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.

Customer's Reference : BBMP/EE/BTP/WO/120/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-18

Sample ID No : 2018-03-26-02 /06

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 21/04/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	24/03/2018	21/04/2018	150.54 X 150.33 X 150.29	22631	8.220	491.1	21.7	22.0
2	M20 Concrete	M20	24/03/2018	21/04/2018	150.24 X 150.94 X 150.24	22677	8.187	496.6	21.9	
3	M20 Concrete	M20	24/03/2018	21/04/2018	150.92 X 150.22 X 150.11	22671	8.298	505.6	22.3	

Note:

The results pertain to the samples received and tested.
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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2018-03-21-02** **Date: 23-03-18**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads, drains and other works at Ashraya layout roads in ward no.11 Kuvempunagara
Agency	:	Executive Engineer, KRIDL, #280, 59th cross road, 17th 'C' Main road, 3rd 'Y' Block, Rajajinagara, Bangalore-560010.
Customer Reference	:	BBMP/EE/BTP/WO/120/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-03-18
Sample ID No	:	2018-03-21-02/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	21-03-18
Oven Dry Weight	:	10120 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	996	996	9.8	90.2	80-100
26.5	1686	2682	26.5	73.5	55-90
9.5	1292	3974	39.3	60.7	35-65
4.75	1490	5464	54.0	46.0	25-55
2.36	1764	7228	71.4	28.6	20-40
0.425	1666	8894	87.9	12.1	10-25
0.075	896	9790	96.7	3.3	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.01%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
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Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....